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Aug 15, 1985

DERWENT-ACC-NO: 1985-209965

DERWENT-WEEK: 198534

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TITLE: Diffusion coated multiple-units dosage - with inner coating of water-dispersible substance and an outer coating

INVENTOR: CHRISTENSEN, F N; JENSEN, J R ; KJORNES, K ; KJORNAES, K ; LINNEMANN, J

PRIORITY-DATA: 1985DK-0004626 (October 9, 1985), 1984DK-0000620 (February 10, 1984), 1984DK-0000621 (February 10, 1984), 1985DK-0004625 (October 9, 1985)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 8503436 A	August 15, 1985	E	050	
AU 8539358 A	August 27, 1985		000	
AU 8539359 A	August 27, 1985		000	
CA 1247009 A	December 20, 1988		000	
CA 1248023 A	January 3, 1989		000	
DE 3586600 G	October 15, 1992		000	A61K009/52
DE 3587274 G	May 27, 1993		000	A61K009/52
DK 8504625 A	October 9, 1985		000	
DK 8504626 A	October 9, 1985		000	
EP 153104 A	August 28, 1985	E	000	
EP 153104 B1	April 21, 1993	E	019	A61K009/52
EP 153105 A	August 28, 1985	E	000	
EP 153105 B1	September 9, 1992	E	025	A61K009/52
FI 8503934 A	October 9, 1985		000	
JP 61501150 W	June 12, 1986		000	
JP 61501151 W	June 12, 1986		000	
JP 95059499 B2	June 28, 1995		014	A61K009/14
JP 95059500 B2	June 28, 1995		011	A61K009/14
NO 173316 B	August 23, 1993		000	A61K009/52
NO 8503955 A	December 23, 1985		000	
US 4713248 A	December 15, 1987		000	
US 4716041 A	December 29, 1987		000	

95059499 B2 INT-CL (IPC): A61K 9/14; A61K 9/22; A61K 9/52; A61K 9/54

ABSTRACTED-PUB-NO: DE 3586600G

BASIC-ABSTRACT:

An oral pharmaceutical controlled release multiple-units formulation has individual units containing an active substance coated with a water-insoluble but water-diffusible controlled release coating which includes (a) an inner film layer which causes adhesion between the units at elevated temps. comprising a water-dispersible film-forming agent and (b) an outer film layer comprising a water-based film-forming agent which prevents adhesion between the units at elevated temps. and imparts flowability to the units.

The inner film is pref. of a cellulose deriv., silicone (co)polymer, vinyl (co)polymer, a biodegradable polymer such as polyamino acid, polylactic acid or copolymer or an acrylic (co)polymer. The outer film layer is pref. formed from diffusion coating materials such as anionic poly(meth)acrylic acid esters, hydroxypropylmethylcellulose phthalate, cellulose acetate phthalate, polyvinylacetate phthalate, polyvinylacetatephthalate crotonic acid copolymerisates or water-soluble coating materials such as cellulose derivs..

ADVANTAGE - The coating does not change its diffusion characteristics in the course of time so that storage stability is imparted to the pharmaceutical compsn..

ABSTRACTED-PUB-NO:

EP 153104B EQUIVALENT-ABSTRACTS:

An oral pharmaceutical controlled release multiple-units formulation has individual units containing an active substance coated with a water-insoluble but water-diffusible controlled release coating which includes (a) an inner film layer which causes adhesion between the units at elevated temps. comprising a water-dispersible film-forming agent and (b) an outer film layer comprising a water-based film-forming agent which prevents adhesion between the units at elevated temps. and imparts flowability to the units.

The inner film is pref. of a cellulose deriv., silicone (co)polymer, vinyl (co)polymer, a biodegradable polymer such as polyamino acid, polylactic acid or copolymer or an acrylic (co)polymer. The outer film layer is pref. formed from diffusion coating materials such as anionic poly(meth)acrylic acid esters, hydroxypropylmethylcellulose phthalate, cellulose acetate phthalate, polyvinylacetate phthalate, polyvinylacetatephthalate crotonic acid copolymerisates or water-soluble coating materials such as cellulose derivs..

ADVANTAGE - The coating does not change its diffusion characteristics in the course of time so that storage stability is imparted to the pharmaceutical compsn..

An oral pharmaceutical controlled release multiple-units formulation in the form of a tablet which disintegrates substantially immediately upon ingestion in the stomach into a multiplicity of individual units containing a therapeutically active substance, the individual units being coated with a substantially water-insoluble, but water-diffusible controlled release coating of a film layer comprising a homogeneous combination of a water-dispersible film-forming agent and a polymeric substance which imparts compressibility to the coating, the film-forming agent being selected from cellulose derivatives, silicone polymers and copolymers, vinyl polymers and copolymers, polyamino acids, polylactic acid and copolymers and derivatives thereof, and acrylic polymers and copolymers, or mixtures thereof, and the polymeric substance being a water-soluble polymeric substance selected from polyvinylpyrrolidone and cellulose derivatives.

EP 153105B

An oral pharmaceutical controlled release multiple-units formulation in which individual units containing a therapeutically active substance are coated with a substantially water-insoluble, but water-diffusible controlled release coating which includes 1) an inner film layer which causes adhesion between the units at elevated temperatures, comprising a water-dispersible film-forming agent selected from cellulose derivatives, silicone polymers and copolymers, vinyl polymers and copolymers, polyamino acids, polylactic acid and copolymers and derivatives thereof, and acrylic polymers and copolymers, or mixtures thereof, and 2) an outer film layer comprising a water-based film-forming agent which prevents adhesion between the units at elevated temperatures and imparts flowability to the units, the water-based film-forming agent being anti-adhesive at temperatures above about 40 deg.C, especially temperatures above 50 deg.C, such as a temperature between 60 deg.C and 120 deg.C, and being selected from diffusion coating materials such as ethylcellulose or enteric coating materials such as anionic poly(meth)acrylic acid esters, hydroxypropylmethylcellulosephthalate, celluloseacetatephthalate, polyvinylacetatephthalate, polyvinylacetatephthalate-crotonic acid copolymerisates, or

mixtures thereof, or water-soluble coating materials such as water-soluble cellulose derivatives, e.g. hydroxypropylcellulose, carboxymethylcellulose, methylcellulose, propylcellulose, hydroxyethylcellulose, carboxyethylcellulose, carboxymethylhydroxyethylcellulose, hydroxymethylcellulose, carboxymethylethylcellulose, methylhydroxypropylcellulose or hydroxypropylmethylcellulose, the coated units having been subjected to heating at a temperature at which the formation of a continuous phase of the film-forming agent of the inner film layer is accelerated to form a coating which substantially does not change its diffusion characteristics in the course of time.

US 4713248A

Oral pharmaceutical controlled release multiple-units formulation, comprises individual units constituted of an active substance coated with a water-insol. but water-diffusible controlled release coating incorporating a homogeneous mixt. of a water-dispersible film-forming agent and a polymeric substance which imparts compressibility to the coating.

Pref. the film-forming agent is a cellulose deriv., silicone (co)polymer, vinyl (co)polymer, biodegradable polymer selected from polyamino acids, polylactic acid and copolymers and derivs. of these, or mixts. of these.

ADVANTAGE - Controlled release characteristics are conferred to the coated units and the coating is compressible. (11pp)s

US 4716041A

Oral pharmaceutical controlled release multiple-units formulation comprises individual units contg. an active substance coated with a water-insoluble but water-diffusible controlled release coating.

Coating comprises (a) an inner film layer which causes adhesion between units at elevated temp., comprising a water-dispersible film-forming agent; and (b) an outer film layer comprising a water-based film-forming agent which prevents adhesion between units at elevated temps. and imparts flowability to the units. Coated units are heated at a temp. at which formation of a continuous phase of the film-forming agent of (a) is accelerated.

ADVANTAGE - Coating formed does not change its diffusion characteristics with time. (13pp)0

WO 8503436A

WEST Search History

DATE: Wednesday, May 01, 2002

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DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

L10	19 and 18	5	L10
L9	(ethyl acetate or cellulose acetate) and (ethylcellulose or ethyl cellulose) and (inerior wall or inner wall or inner membrane or interior membrane)	222	L9
L8	17 and 15	113	L8
L7	L6 and 12	561	L7
L6	14 and 13	5964	L6
L5	osmotic dosage form	189	L5
L4	(exterior and interior) or (outer and inner)	1272034	L4
L3	(wall or layer or memebrane) same 11	27519	L3
L2	semipermeable same (membrane or wall)	11001	L2
L1	active agent or therapeutic agent or drug or medicine	387472	L1

END OF SEARCH HISTORY